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September 20, 2002

Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Patent Application No.: 09/939011

For: DEVICE FOR IDENTIFYING THE PRESENCE OF A NUCLEOTIDE

SEQUENCE IN A DNA SAMPLE

Inventors: BENN, James et al.

Filed: August 24, 2001

Our Ref. No.: GEN-007ACP

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TECH CENTER 1600/2900

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

- 1. Information Disclosure Statement;
- 2. PTO Form 1449;
- 3. Copies of references cited in PTO Form 1449 (147);
- 4. A copy of the International Search Report issued in international application no. PCT/US01/2655, filed August 24, 2001; and
- 5. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

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Peter C. Lauro, Esq., Reg. No. 32,36

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

allw

Peter C. Lauro, Esq. Registration No. 32,360 Attorney for Applicants



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re the application of: BENN, James et al.

Serial No.: 09/939011

Filed: August 24, 2001

For: DEVICE FOR IDENTIFYING THE PRESENCE OF A NUCLEOTIDE SEQUENCE IN A

DNA SAMPLE

Attorney Docket No.: GEN-007ACP

Group Art Unit: 1645

Examiner:

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Date of Signature and of Mail Deposit

Peter C. Lauro, Esq.

Registration No. 32,360

Attorney for Applicants

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicants and their Attorney are aware of the following publications and information, listed on the attached PTO Form 1449, and in accordance with 37 CFR §1.97 hereby submit these publications for the Examiner's consideration. A copy of each cited publication is enclosed. Please note that in the PTO Form 1449, document nos. A8, A24, B1, B3 and B8 were cited in the International Search Report issued for international application no.

PCT/US01/2655, filed August 24, 2001, that corresponds to the above-referenced patent application. A copy of the International Search Report is also enclosed.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

Under 37 CFR § 1.97(b)(3), no additional costs are believed to be due in connection with the filing of this disclosure. If, however, a first Office Action on the merits issues in this application bearing a mailing date prior to the date of this Information Disclosure Statement, please charge the appropriate fee as required under 37 CFR §1.17(p) to our Deposit Order Account No. 12-0080.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP

Peter C. Lauro, Esq. Registration No. 32,360

Attorney for Applicants

28 State Street Boston, MA 02109 (617) 227-7400

Date: September 20, 2002

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SERIAL NO.

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BENN, James et al.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	3,915,652	10/75	Natelson	23	259	
	A2	4,458,066	07/84	Caruthers et al.	536	27	
	A3	4,500,707	02/85	Caruthers et al.	536	27	
	A4	4,650,750	03/87	Giese	435	7	
	A5	4,683,195	07/87	Mullis et al.	435	6	
	A6	4,769,216	09/88	Chandler et al.	422	58	
	A7	5,030,555	07/91	Clemmons	435	5	
	A8	5,188,963	02/93	Stapleton	435	299	
	A9	5,230,866	07/93	Shartle et al.	422	103	
	A10	5,352,609	10/94	Boquet	435	270	
	A11	5,391,480	02/95	Davis et al.	435	6	
	A12	5,449,064	09/95	Hogan <i>et al</i> .	204	180.1	
	A13	5,516,931	05/96	Giese et al.	560	59	
	A14	5,602,273	02/97	Giese et al.	560	60	
	A15	5,604,104	02/97	Giese et al.	435	7.1	
•	A16	5,610,020	03/97	Giese et al.	435	7.1	
	A17	5,679,310	10/97	Manns	422	102	
	A18	5,785,926	07/98	Seubert et al.	422	100	
	A19	5,840,573	11/98	Fields	435	287.2	
	A20	5,856,174	01/99	Lipshutz et al.	435	286.5	
	A21	5,888,819	03/99	Goelet <i>et al.</i>	435	5	
	A22	5,985,651	11/99	Hunicke-Smith	435	285.1	
	A23	6,004,744	12/99	Goelet et al.	435	5	

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						YES	NO
A24	DE 199 50 385 A1	08/00	Germany			Abstract Only	
A25	EP 616218 A1	09/94	EPO				
A26	EP 697242 A1	02/96	EPO				
A27	EP 805350 A1	11/97	EPO				
A28	EP 903176 A2, A3	03/99	EPO		**		
A29	JP 07-203965 A	08/95	Japan			Abstract Only	
A30	JP 62-155090 A	07/87	Japan			Abstract Only	

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i							YES	NO
	B1	WO 88/04428 A1	06/88	WO				
	B2	WO 93/01312 A1	01/93	WO				
	В3	WO 96/07917 A1	03/96	WO			Abstract Only	
	B4	WO 97/29212 A1	08/97	WO				
	B5	WO 97/48818 A1	12/97	WO				
	B6	WO 98/04920 A2, A3	02/98	`WO				
	B7	WO 99/13312 A1	03/99	WO				
	B8	WO 00/44497 A1	03/00	WO				
	B9	WO 00/66607 A1	11/00	WO				

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	B10	Bartsch, H. et al. (1996). "The role of individual susceptibility in cancer burden related to environmental exposure." <i>Environ. Health Perspect.</i> 104 Suppl. 3: 569-77				
	B11	Bashkin, J. et al. (1996). "Implementation of a capillary array electrophoresis instrument." J. Capillary Electrophor. 3: 61-68				
	B12	Beaucage, S.L. et al. (1981). "Deoxynucleoside phosphoramidites – a new class of key intermediates for deoxypolynucleotide synthesis." <i>Tetrahedron Letters</i> , 22(20): 1859-62				
	B13	Beck, W. T. et al. (1993). "Altered DNA topoisomerase II in multidrug resistance." Cytotechnology 11(2): 115-9				
	B14	Belgrader, P. et al. (1996). "Automated polymerase chain reaction product sample preparation for capillary electrophoresis analysis." J. Chromatogr. B. Biomed. Appl. 683(1): 109-14				
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	B16	Boddy, A. V. et al. (1993). "The role of pharmacogenetics in chemotherapy: modulation of tumour response and host toxicity." Cancer Surv. 17: 79-104				
	B17	Boffa, L.C. et al. (1995). "Isolation of active genes containing CAG repeats by DNA strand invasion by a peptide nucleic acid." Proc. Natl. Acad. Sci. USA 92: 1901-05				
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	B20	Caporaso, N. E. <i>et al.</i> (1995). "Genetic susceptibility in the occupational setting: introduction to the workshop." <i>Med. Lav.</i> 86: 199-206				
	B21	Cardullo, E. et al. (1988). "Detection of nucleic acid hybridization by nonradiative fluorescence resonance energy transfer." <i>Proc. Natl. Acad. Sci. USA</i> 85: 8790-8794				
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	C1	Carrilho, E. et al., (1997). "Factors to be considered for robust high-throughput automated DNA
		sequencing using a multiple-capillary array instrument." In <i>Progress in Biomedical Optics</i> , Cohn,
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	C2	Cline, J. et al. (1996). "PCR fidelity of Pfu DNA polymerase and other thermostable DNA
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	C8	Evensen, H. T. et al. (1998). "Automated fluid mixing in glass capillaries." Rev. Sci. Instrum.,
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	C9	Ewing, B. L. et al. (1998). "Base-calling automated sequencer traces using Phred. I. Accuracy
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	C18	Hacia, J. G. et al. (1998). "Evolutionary sequence comparisons using high-density
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D1	OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)
	Hacia, J. G. et al. (1999). "Determination of ancestral alleles for human single-nucleotide polymorphisms using high-density oligonucleotide arrays." Nat. Genet. 22(2):164-7
D2	Haff L. et al., "A high-performance system for automation of the polymerase chain reaction." BioTechniques. 10:102-103, 106-12, (1991)
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D9	Kaye, S. B. (1998). "Multidrug resistance: clinical relevance in solid tumours and strategies for circumvention." <i>Curr. Opin. Oncol.</i> 10 Suppl 1: S15-S19
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D12	Kwok, P-Y. et al. (1992). "Automatable screening of yeast artificial-chromosome libraries based on the oligonucleotide-ligation assay." <i>Genomics.</i> 13(4): 935-41
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D15	Lench, N. et al. (1988). "Simple non-invasive method to obtain DNA for gene analysis." Lancet. 1(8599):1356-8
D16	Linder, M. W. et al. (1997). "Pharmacogenetics: a laboratory tool for optimizing therapeutic efficiency." Clin. Chem. 43(2): 254-66
D17	Liu, C. et al. (1998). "On-line dual microdialysis with ESI-MS for direct analysis of complex biological samples and microorganism lysates." Anal. Chem. 70(9): 1797-801
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E1	Liu, C. et al. (1997). "Improving the microdialysis procedure for electrospray ionization mass
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E15	Nickerson, D. A. et al. (1997). "PolyPhred: automating the detection and genotyping of single
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E16	Nielsen, P.E. et al. (1991). "Sequence-selective recognition of DNA by strand displacement with
Fuerrises	a thymine-substituted polyamide." Science 254: 1497-1500 Date Considered
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F3	Rebbeck, T. R. et al. (1998). "Modification of clinical presentation of prostate tumors by a novel genetic variant in CYP3A4." J. Natl. Cancer Inst. 90(16): 1225-9
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F5	Romkes, M. et al. (1996). "Association of low CYP3A activity with p53 mutation and CYP2D6 activity with Rb mutation in human bladder cancer." Carcinogenesis. 17(5): 1057-62
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F8	Salas-Solano, O. <i>et al.</i> (1998). "A sample purification method for rugged and high-performance DNA sequencing by capillary electrophoresis using replaceable polymer solutions. B. Quantitative determination of the role of sample matrix components on sequencing analysis." <i>Anal. Chem.</i> 70(8): 1528-35
F9	Salas-Solano, O. <i>et al.</i> (1998). "Routine DNA sequencing of 1000 bases in less than one hour by capillary electrophoresis with replaceable linear polyacrylamide solutions." <i>Anal. Chem.</i> 70(19): 3996-4003
F10	Seeger, C. et al. (1997). "PNA-mediated purification of PCR amplifiable human genomic DNA from whole blood." BioTechniques 23: 512-17
F11	Shields, P. G. (1993). "Inherited factors and environmental exposures in cancer risk." <i>J. Occup. Med.</i> 35(1): 34-41
F12	Smith, D. R. et al. (1997). "Complete genome sequence of Methanobacterium thermo- autotrophicum ΔH: functional analysis and comparative genomics." J.Bact.179(22): 7135-55
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	H1	4,709,016	11/87	Giese	530	389	
	H2	4,832,851	05/89	Bowers et al.	210	650	
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	H5	5,560,811	10/96	Briggs <i>et al.</i>	204	451	
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	H7	5,856,100	01/99	Hayashizaki	435	6	

FOREIGN PATENT DOCUMENTS

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H10	WO 92/13963 A1	08/92	WO				
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